

## DECLARATION AND POWER OF ATTORNEY FOR U.S. PATENT APPLICATION

(X) Original    () Supplemental    () Substitute    (X) PCT    () DESIGN

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that I verily believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Title: PRODUCTION METHOD OF Ge-ADDED Nb ,Al-BASED SUPERCONDUCTING WIRE

of which is described and claimed in:

() the attached specification, or  
 () the specification in application Serial No. \_\_\_\_\_, filed \_\_\_\_\_, and with amendments through \_\_\_\_\_, or  
 (X) the specification in International Application No. PCT/JP2004/010422, filed July 15, 2004, and as amended on (if applicable).

I hereby state that I have reviewed and understand the content of the above-identified specification, including the claims, as amended by any amendment(s) referred to above.

I acknowledge my duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim priority benefits under Title 35, United States Code, §119 (and §172 if this application is for a Design) of any application(s) for patent or inventor's certificate listed below and have also identified below any application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NO.	DATE OF FILING	PRIORITY CLAIMED
Japan	2003-274858	July 15, 2003	Yes

I hereby claim the benefit under Title 35, United States Code §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION SERIAL NO.	U.S. FILING DATE	STATUS: PATENTED, PENDING, ABANDONED

And I hereby appoint Michael R. Davis, Reg. No. 25,134; Matthew M. Jacob, Reg. No. 25,154; Warren M. Cheek, Jr., Reg. No. 33,367; Nils Pedersen, Reg. No. 33,145; Charles R. Watts, Reg. No. 33,142; Michael S. Huppert, Reg. No. 40,268; Jeffrey R. Filipek, Reg. No. 41,471; and Douglas W. Hahm, Reg. No. 44,142, who together constitute the firm of WENDEROTH, LIND & PONACK, L.L.P., as well as any other attorneys and agents associated with Customer No. 000513, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith.

I hereby authorize the U.S. attorneys and agents named herein to accept and follow instructions from NISHIZAWA & ASSOCIATES as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and myself. In the event of a change in the persons from whom instructions may be taken, the U.S. attorneys named herein will be so notified by me.

Direct Correspondence to:  <div style="text-align: center; margin-top: 20px;"> <b>CUSTOMER NO.</b>  <b>000513</b> </div>		Direct Telephone Calls to:  <div style="text-align: center; margin-top: 10px;"> <b>WENDEROTH, LIND &amp; PONACK, L.L.P.</b>          2033 "K" Street, N.W., Suite 800          Washington, D.C. 20006-1021           Phone: (202) 721-8200          Fax: (202) 721-8250       </div>	
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<b>Full Name of First Inventor</b>	FAMILY NAME <b>BANNO</b>	FIRST GIVEN NAME <b>Nobuya</b>	SECOND GIVEN NAME
<b>Residence &amp; Citizenship</b>	CITY <b>Tsukuba-shi</b>	STATE OR COUNTRY <b>Japan</b>	COUNTRY OF CITIZENSHIP <b>Japan</b>
<b>Post Office Address</b>	ADDRESS CITY STATE OR COUNTRY ZIP CODE <b>c/o NATIONAL INSTITUTE FOR MATERIALS SCIENCE,</b> <b>2-1, Sengen 1-chome, Tsukuba-shi, Ibaraki, Japan</b>		

<b>Full Name of Second Inventor</b>	FAMILY NAME <b>TAKEUCHI</b>	FIRST GIVEN NAME <b>Takao</b>	SECOND GIVEN NAME
<b>Residence &amp; Citizenship</b>	CITY <b>Tsukuba-shi</b>	STATE OR COUNTRY <b>Japan</b>	COUNTRY OF CITIZENSHIP <b>Japan</b>
<b>Post Office Address</b>	ADDRESS CITY STATE OR COUNTRY ZIP CODE <b>c/o NATIONAL INSTITUTE FOR MATERIALS SCIENCE,</b> <b>2-1, Sengen 1-chome, Tsukuba-shi, Ibaraki, Japan</b>		

<b>Full Name of Third Inventor</b>	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
<b>Residence &amp; Citizenship</b>	CITY	STATE OR COUNTRY	COUNTRY OF CITIZENSHIP
<b>Post Office Address</b>	ADDRESS	CITY	STATE OR COUNTRY ZIP CODE

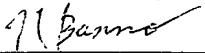

<b>Full Name of Fourth Inventor</b>	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
<b>Residence &amp; Citizenship</b>	CITY	STATE OR COUNTRY	COUNTRY OF CITIZENSHIP
<b>Post Office Address</b>	ADDRESS	CITY	STATE OR COUNTRY ZIP CODE

<b>Full Name of Fifth Inventor</b>	<b>FAMILY NAME</b>	<b>FIRST GIVEN NAME</b>	<b>SECOND GIVEN NAME</b>
<b>Residence &amp; Citizenship</b>	<b>CITY</b>	<b>STATE OR COUNTRY</b>	<b>COUNTRY OF CITIZENSHIP</b>
<b>Post Office Address</b>	<b>ADDRESS</b>	<b>CITY</b>	<b>STATE OR COUNTRY ZIP CODE</b>

<b>Full Name of Sixth Inventor</b>	<b>FAMILY NAME</b>	<b>FIRST GIVEN NAME</b>	<b>SECOND GIVEN NAME</b>
<b>Residence &amp; Citizenship</b>	<b>CITY</b>	<b>STATE OR COUNTRY</b>	<b>COUNTRY OF CITIZENSHIP</b>
<b>Post Office Address</b>	<b>ADDRESS</b>	<b>CITY</b>	<b>STATE OR COUNTRY ZIP CODE</b>

I further declare that all statements made herein of my own knowledge are true, and that all statements on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

1st Inventor  Nobuya BANNO Date February 3, 2006  
 2nd Inventor  Takao TAKEUCHI Date February 3, 2006  
 3rd Inventor \_\_\_\_\_ Date \_\_\_\_\_  
 4th Inventor \_\_\_\_\_ Date \_\_\_\_\_  
 5th Inventor \_\_\_\_\_ Date \_\_\_\_\_  
 6th Inventor \_\_\_\_\_ Date \_\_\_\_\_

The above application may be more particularly identified as follows:

U.S. Application Serial No. 10/564,482 Filing Date January 13, 2006

Applicant Reference Number 04-F-034US/KM Atty Docket No. 2006-0022A

Title of Invention PRODUCTION METHOD OF Ge-ADDED Nb<sub>3</sub>Al-BASED SUPERCONDUCTING WIRE

# RECORDATION FORM COVER SHEET PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Assistant Secretary and Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies) thereof.

1. Name of conveying party(ies):

Nobuya BANNO and Takao TAKEUCHI

Additional name(s) of conveying party(ies) attached? No

3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other ☐

Execution Date: February 3, 2006

2. Name and address of receiving party(ies):

Name: NATIONAL INSTITUTE FOR MATERIALS  
SCIENCE

Street Address: 2-1, Sengen 1-chome, Ibaraki

City: Tsukuba-shi Country: Japan

Additional name(s) & address(es) attached? No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)  
10/564,482, filed January 13, 2006

B. Patent No.(s)

Additional numbers attached? No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: WENDEROTH, LIND & PONACK, L.L.P.  
Attn: Michael R. Davis, Esq.

Street Address: 2033 K Street, N.W., Suite 800

City: Washington, State: DC ZIP: 20006-1021

2/28/2006 MKAYPAGH 00000120 10564482

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41). . . . . \$40.00

☒ Enclosed (Check No. 72720)  
Authorized to be charged to deposit account

8. Deposit account number: 23-0975

(Attach duplicate copy of this page if paying by deposit account)

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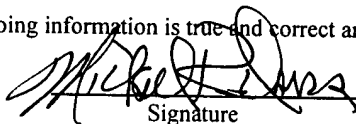
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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael R. Davis, Reg. No. 25,134  
Name of Person Signing

  
Signature

February 24, 2006  
Date

Total number of pages including cover sheet: 3

OMB No. 0651-0011 (exp. 4/94)

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Mail documents to be recorded with required cover sheet information:

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Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, D.C. 20503.

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
FEE FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975.

Attorney Docket No. 2006-0022A

# ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

Insert Name(s)  
of Inventor(s)

Nobuya BANNO and Takao TAKEUCHI

Insert Name(s)  
of Assignee(s)

the undersigned hereby sell(s) and assign(s) to

NATIONAL INSTITUTE FOR MATERIALS SCIENCE

Address

of 2-1, Sengen 1-chome, Tsukuba-shi, Ibaraki, Japan

Title of  
Invention

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

PRODUCTION METHOD OF Ge-ADDED Nb<sub>3</sub>Al-BASED SUPERCONDUCTING WIRE

Date of Signing  
of Application

for which an application for patent in the United States has been executed by the undersigned

on February 3, 2006

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 2033 K Street, N.W., Suite 800, Washington, D.C. 20006-1021, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordal of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date February 3, 2006

Nobuya

Nobuya BANNO

Date February 3, 2006

T. Takeuchi

Takao TAKEUCHI

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness \_\_\_\_\_

Witness \_\_\_\_\_

### ACKNOWLEDGMENT

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ } ss

This \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came the above-named \_\_\_\_\_ to me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

SEAL

\_\_\_\_\_  
Official Signature

\_\_\_\_\_  
Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No. 10/564,482 Filing Date January 13, 2006

Applicant Reference Number 04-F-034US/KM Atty Docket No. 2006-0022A

Title of Invention PRODUCTION METHOD OF Ge-ADDED Nb<sub>3</sub>Al-BASED SUPERCONDUCTING WIRE